

ABSTRACT OF THE DISCLOSURE

An electromagnetic induced accelerator includes internal and external circular loop inductors for inducing a magnetic field when a current is applied to the internal and external circular loop inductors in a same direction, the internal and external circular loop inductors being spaced apart from each other by a predetermined distance and disposed coaxially and parallel to each other; a channel, which includes dielectric layers contacting the internal and external circular loop inductors, disposed between the internal and external circular loop inductors, wherein a secondary current is induced in the channel between the dielectric layers by the induced, magnetic field; and a discharging coil for supplying a pulse energy to the channel and for generating a plasma.